

SONY

3000019

5710

TRINITRON® COLOUR MONITOR

KX-27PS1

OPERATING INSTRUCTIONS

page 2

Before operating the set, please read this manual thoroughly, and retain it for future reference.

MODE D'EMPLOI

page 14

Avant la mise en service de l'appareil, lire attentivement ce mode d'emploi, et le conserver pour toute référence ultérieure.

BEDIENUNGSANLEITUNG

Seite 26

Vor Inbetriebnahme lesen Sie bitte diese Bedienungsanleitung sorgfältig durch, und bewahren Sie sie zum späteren Nachschlagen gut auf.

GEBRUIKSAANWIJZING

blz 38

Lees de gebruiksaanwijzing aandachtig door alvorens het apparaat in gebruik te nemen en bewaar de gebruiksaanwijzing voor eventuele naslag naderhand.

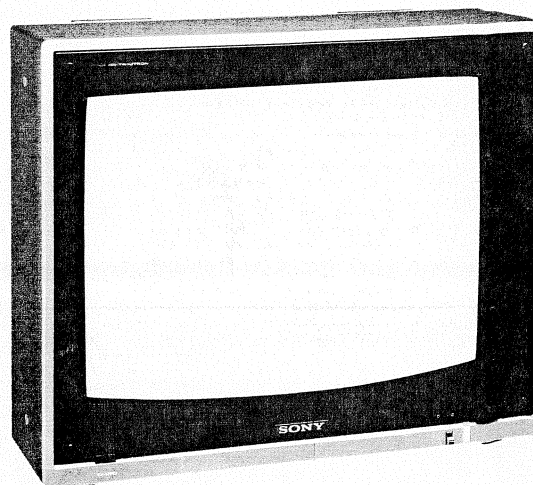
BRUKSANVISNING

Sidan 50

Läs igenom bruksanvisningen noggrant innan du använder apparaten, och bevara den för framtida bruk.

photocopy for service-use only

PROFEEL



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WARNING

To prevent fire or shock hazard, do not expose the set to rain or moisture.

Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow	:	Earth
Blue	:	Neutral
Brown	:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol $\perp$ or coloured green or green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

PRECAUTIONS

USE

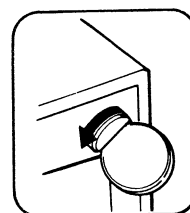
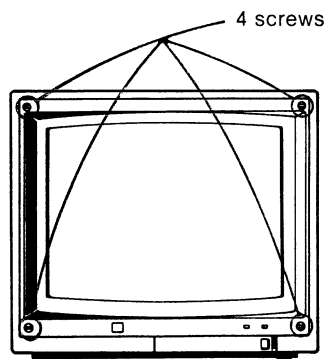
- Operate only on 200 –240 V ac. Use the supplied mains lead; do not use any other type.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.

INSTALLATION

- Allow adequate air circulation to prevent internal heat build-up. Do not place the set on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the set in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

MAINTENANCE

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your set. For maximum protection, repack your set as it was originally packed at the factory.
- To keep the set looking brand-new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner or benzene, or abrasive cleansers since these will damage the cabinet. As a safety precaution, unplug the set before cleaning it.
- For cleaning the screen, the front glass may be removed by loosening the screws with a coin. Be careful when removing the glass as it is heavy.

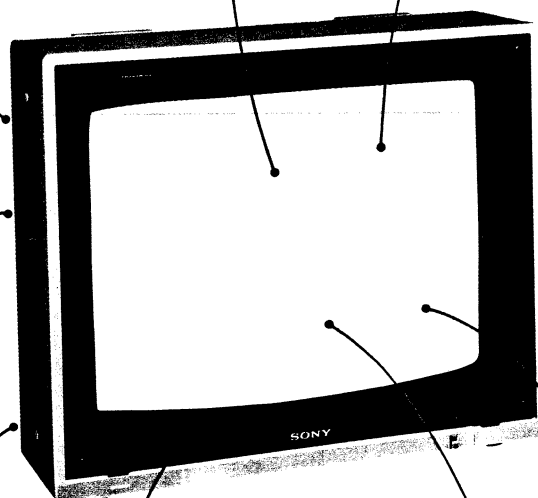


FEATURES

A colour monitor designed for a variety of uses with a Sony colour TV tuner, Sony Betamax video cassette recorder, video camera, etc.

Dynamic Picture system adjusts picture contrast automatically to produce more detail in both bright and dark areas of every scene.

Dynamic Colour system for superior colour reproduction with natural facial colour tones and dazzling whites.



Two built-in audio amplifiers provide dynamic sound from an externally connected speaker system (optional).

Pulse techniques are used in the power supply section to provide an efficient and stable power supply.

With the Remote Commander (supplied with the Sony VTX-100E* colour TV tuner), this colour monitor and the VTX-100E may be remotely controlled.

With the optional Remote Commander, the colour monitor, a TV tuner (e.g., the Sony VTX-100E or TT-F1E) and a video cassette recorder such as the Sony SL-F1E may be remotely controlled. Point the Commander toward the remote control detector on the colour monitor, VTX-100E or TT-F1E.

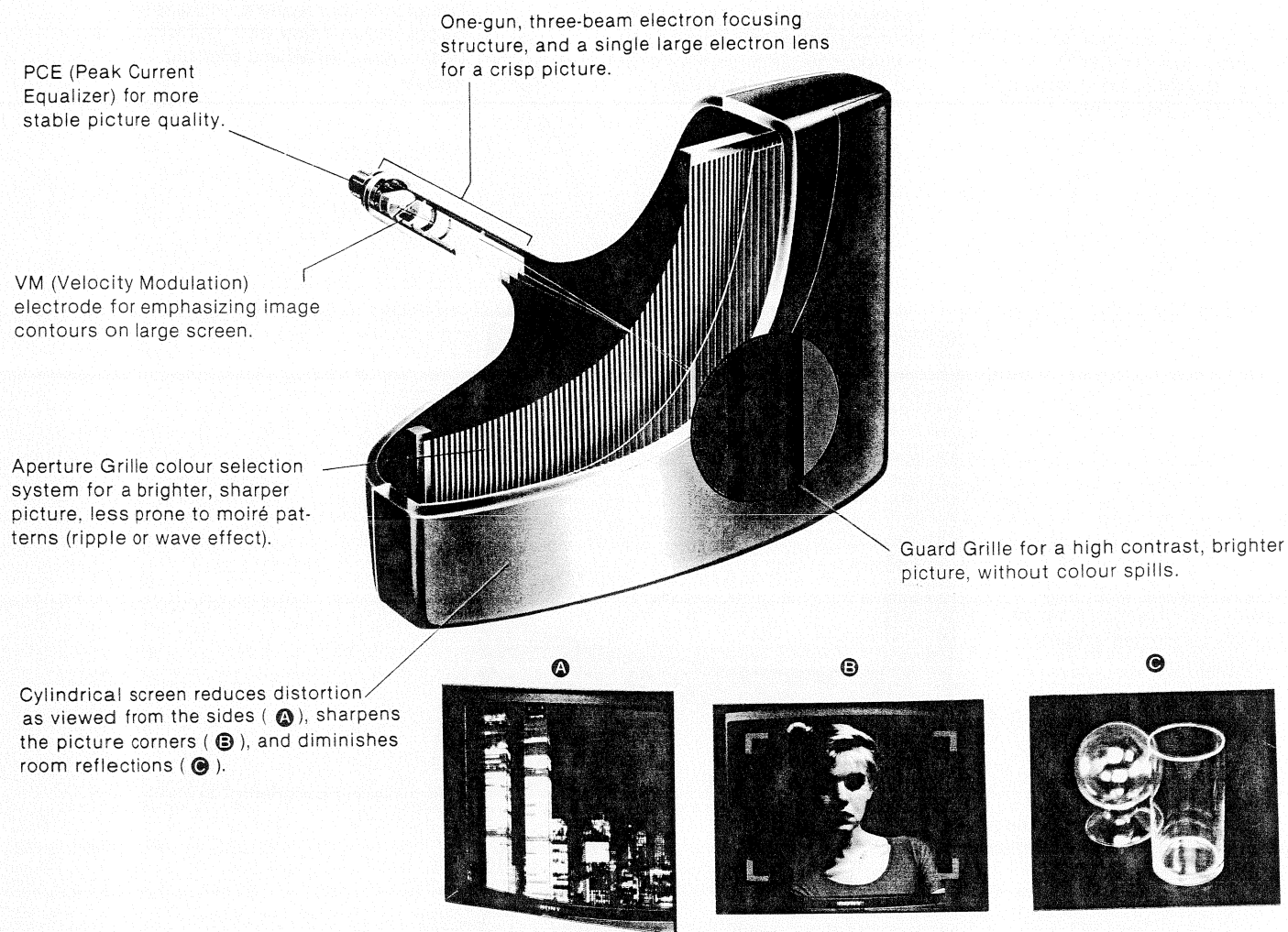
Energy-saving quick-start system.

Smoked glass over the picture tube for a glare-free picture with optimum contrast.

*The last letter of the model number indicates where the unit was purchased: E (for European countries), ES (for Germany), UB (for United Kingdom), for example.

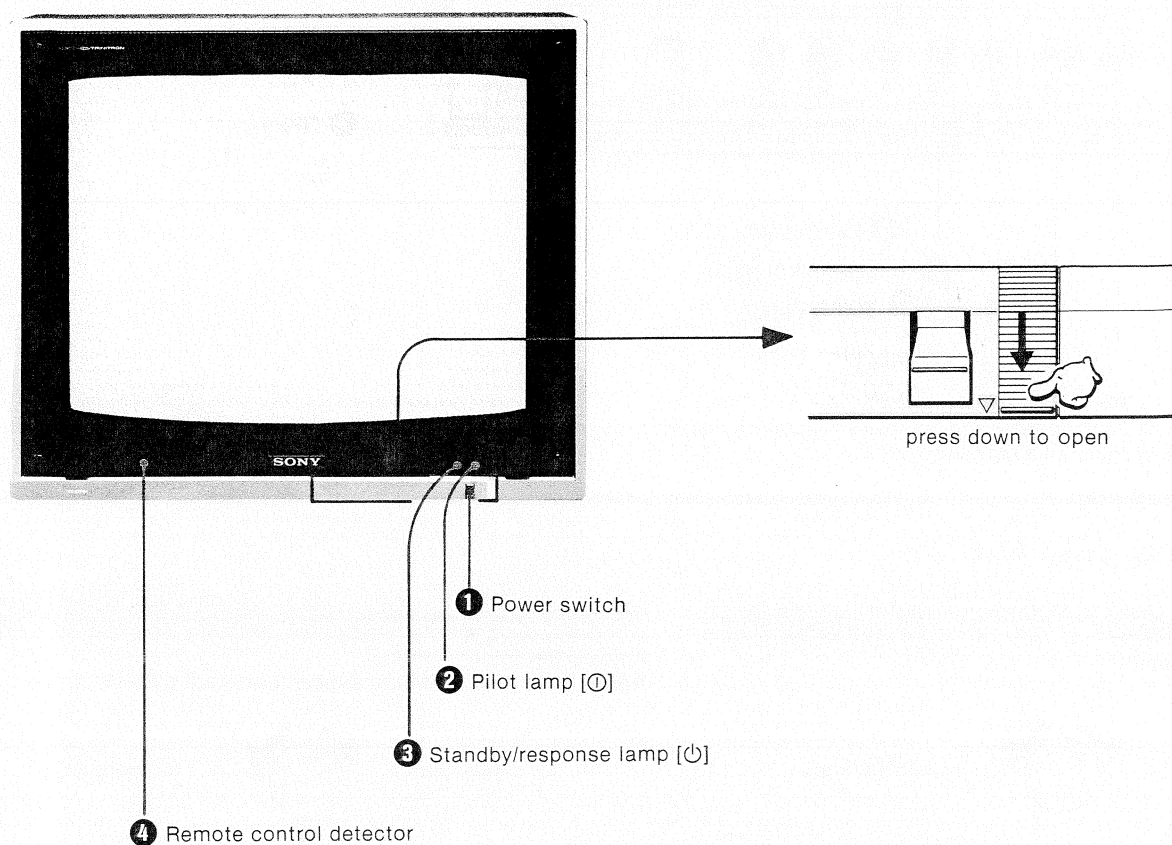
TRINITRON COLOUR SYSTEM

The Sony colour monitor as well as the conventional Sony Colour TV employs the unique Trinitron Colour System. A product of intensive engineering research, the Trinitron Colour System provides a brighter and sharper picture, with simplified and more accurate service adjustments.



A and B are simulated pictures.

LOCATION AND FUNCTION OF PARTS AND CONTROLS



1 Power switch

2 Pilot lamp [⓪]

3 Standby/response lamp [Ⓛ]

Depress the power switch to turn the set on. The green pilot lamp will light.

When the set is operated with the optional Remote Commander, be sure to keep this power switch depressed.

When the set is turned off with the power switch on the Remote Commander, the red standby lamp will light, indicating that the set is in the remote control standby mode.

If the set is not to be used for an extended period of time, turn off the power switch on the set.

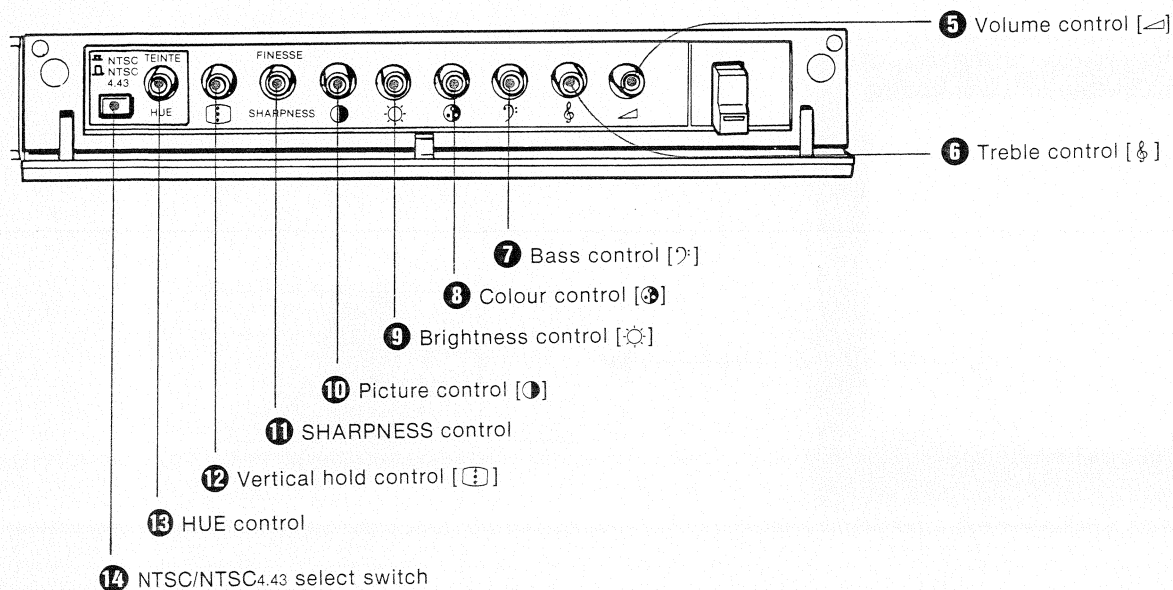
When the function buttons on the Commander are pressed, the response lamp on the colour monitor will light or blink.

If the power supply is interrupted, or the mains lead is disconnected during operation, this monitor will be placed in the standby mode and the red standby lamp will light when the power resumes.

To switch on, press the power switch twice.

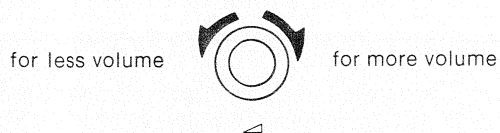
4 Remote control detector

Receives the infrared control from the Remote Commander.



5 Volume control [🔊]

Adjusts the sound volume.



8 Colour control [🌈]

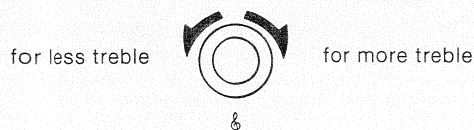
Adjusts the colour intensity.

Normally set this control to the center detent position.



6 Treble control [🎵]

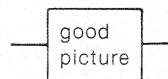
Normally set this control to the center detent position.



too pale



too vivid



9 Brightness control [☀️]

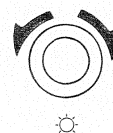
Adjusts the brightness.

Normally set this control to the center detent position.

The newly-developed Dynamic Picture system makes it unnecessary to make frequent adjustments of the brightness.



for less bright-
ness

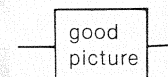


for more brightness

too dark

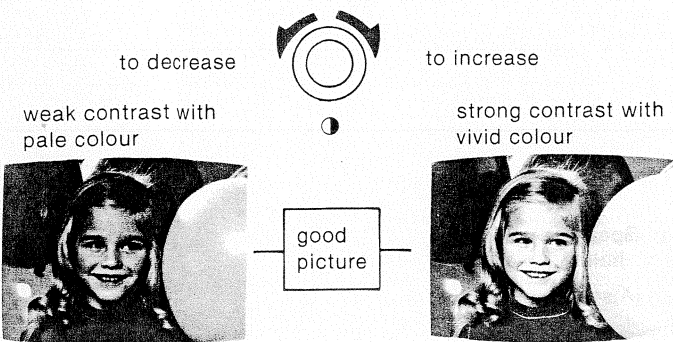


too bright



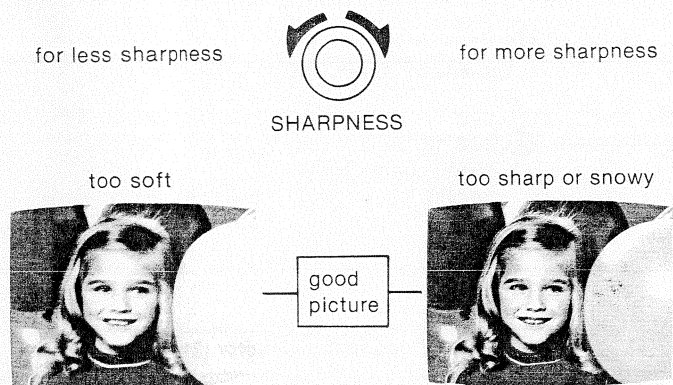
10 Picture control [P]

Adjusts the contrast, colour intensity and brightness simultaneously in the proper ratio.



11 SHARPNESS control

Adjusts the sharpness.
Normally set this control to the center detent position.



12 Vertical hold control [V]

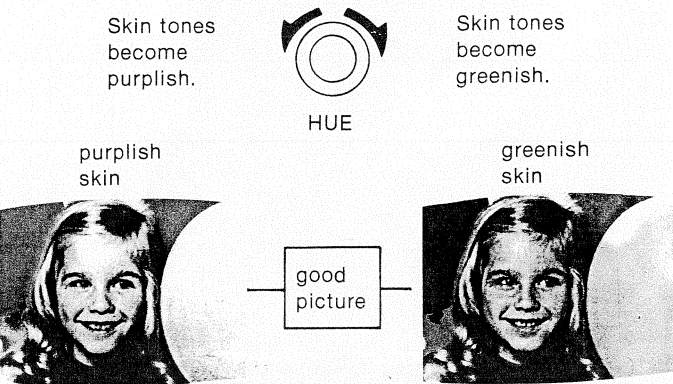
If the picture rolls vertically, adjust this control until the picture stabilizes.



If you turn the control all the way to the right or left, the colour may disappear or the picture may be distorted. Avoid turning the control so far that this happens.

13 HUE control

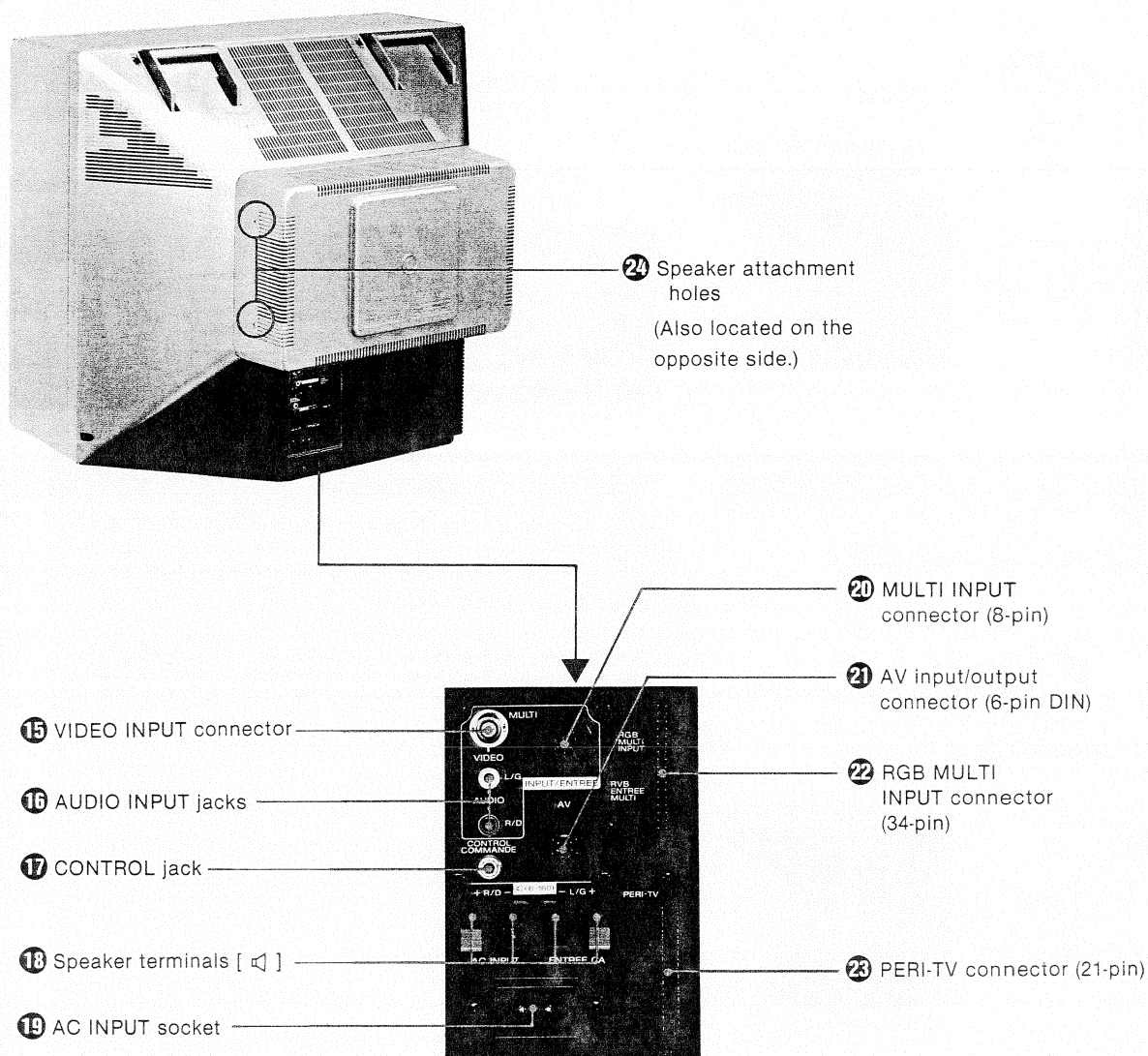
Functions for NTSC and NTSC 4.43 programmes only.
Adjusts the hue to give the most natural skin tones.



14 NTSC/NTSC4.43 select switch

Press the switch for NTSC colour system and release it for NTSC4.43*.
PAL and SECAM colour systems are selected automatically regardless of switch position.

* A signal of NTSC4.43 system is obtained by playing back NTSC-recorded video tapes with a Sony video tape recorder/player specially designed for this system.



15 VIDEO INPUT connector (BNC)

Connect to the video output of a Sony Betamax or U-matic video cassette recorder, Sony colour TV tuner, video camera, etc. with a 75-ohm coaxial cable equipped with BNC connectors.

16 AUDIO INPUT jacks (phono jacks, L/G-white, R/D-red)

Connect to the audio outputs of a Sony Betamax or U-matic video-cassette recorder, Sony colour TV tuner, etc.

Connect the L/G and R/D channels properly. If the recorder is monaural, connect the audio output of the recorder to these two jacks with the RK-105A connecting cord (supplied) and a PC-5A plug adaptor (phono plug to minijack, supplied), if required.

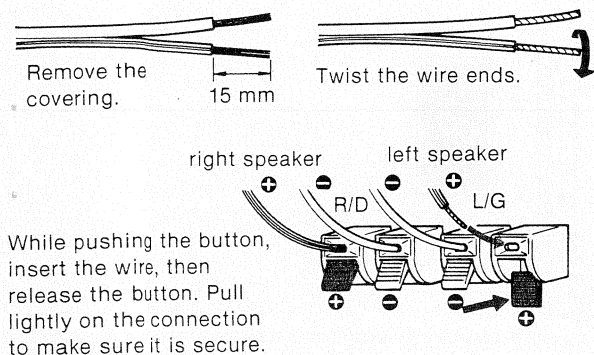
17 CONTROL jack (minijack)

Use this jack when the KX-27PS1 colour monitor is operated with an external control unit such as the Sony Remote Commander in combination with the VTX-100E colour TV tuner.

18 Speaker terminals []

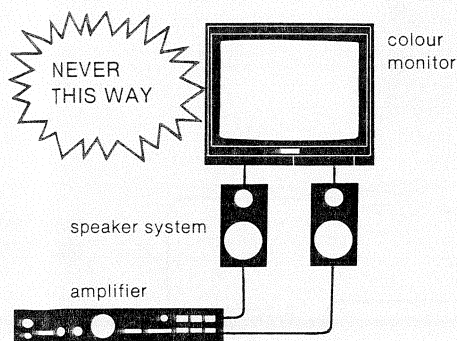
Connect to an 8 – 16 ohms speaker system.

Speaker cord connections



Caution

- Make sure that none of the strands are separated from the wire and short across the speaker terminals.
 - Correct ⊕ ⊖ connection of both speakers insures proper in-phase operation. If the speaker system is out-of-phase, the bass tones seem to be missing and the position of the instruments becomes obscure.
 - The set should be placed some distance away from the speakers so that it will not be affected by the speaker magnets. If a temporary proximity to magnets should cause portions of the picture to have poor colour, turn the power switch off, and after about 10 minutes, turn it on.
- The Sony SS-X2A or SS-X1A speaker system (optional) may be placed near the set because these are a low magnetic flux leakage type.
- The maximum power output of the set is 25 watts. Be careful not to continuously supply power over the power handling capacity of the speaker system connected especially when using the SS-X1A speaker system.
 - Never connect a speaker system to an amplifier and this colour monitor simultaneously, as this may damage the monitor.



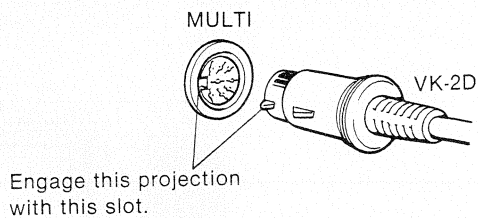
19 AC INPUT socket

Connect the supplied mains lead.

20 MULTI INPUT connector (8-pin)

Connect to the MULTI OUTPUT (8-pin) connector on a Sony colour TV tuner (e.g. VTX-100E) with an optional VK-2D (2m) video cable.

The audio, video and control signals can be connected simultaneously with this cable.



Use an optional VK-5DX video cable to extend the VK-2D.

Caution: Use either the VIDEO/AUDIO/CONTROL jacks 15 16 17 or the MULTI INPUT connector, but not both simultaneously.

21 AV input/output connector

Connect to the 6-pin DIN connector of a video cassette recorder with an optional VMC-366 video cable. The audio/video input and output connection is done with this single cable.

22 RGB MULTI INPUT connector (34-pin)

This connector allows the units with digital or analog RGB outputs to be connected. Connect the optional Sony TXT-100G (for German) or TXT-100B (for English) teletext (video text) unit. The cover has been attached to this connector at the factory. When the connector is not in use, keep it covered.

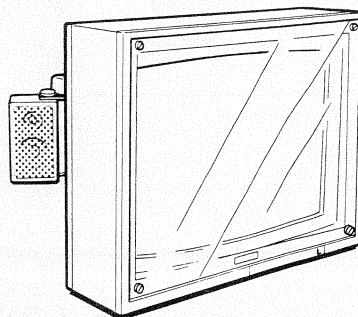
23 PERI-TV connector (21-pin)

This PERI-TV (PERITELEVISION) connector allows the set to be connected to any Peritelevision appliance which may be developed in the future.

Caution: Use either the 34-pin 22 or the 21-pin 23 connector, but not both simultaneously.

24 Speaker attachment holes

The Sony SS-X2A or SS-X1A speaker system (optional) may be attached to the set. For details on how to attach, see the instructions furnished with the speaker system.

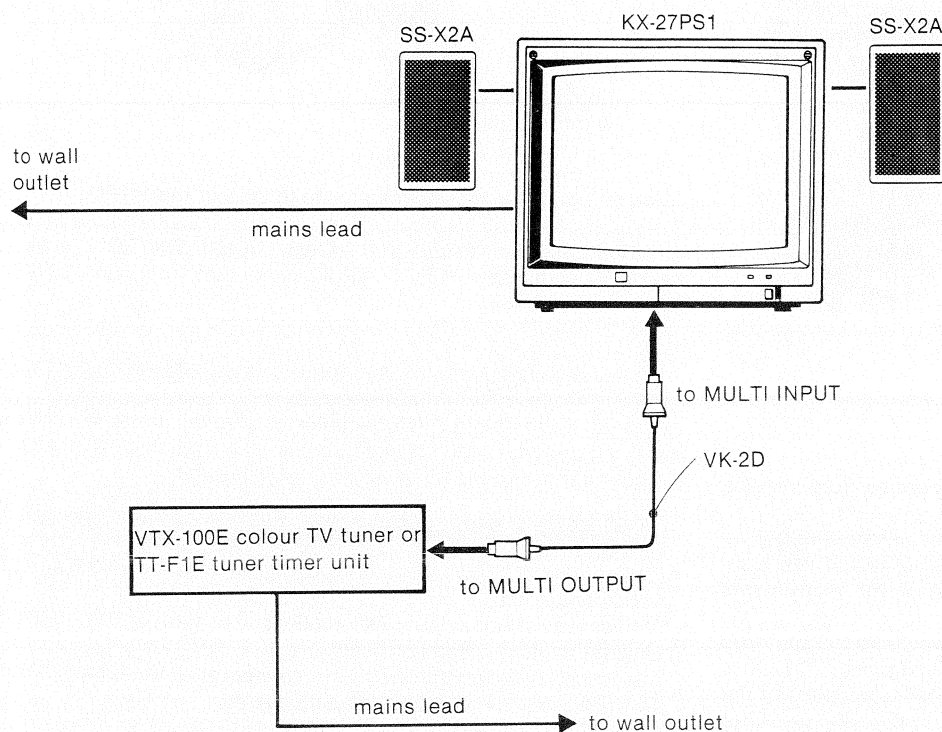


EXAMPLES OF SYSTEM CONNECTIONS

Prior to connections switch off power of each equipment.

Colour monitor + Speaker system + Colour TV tuner or tuner timer unit

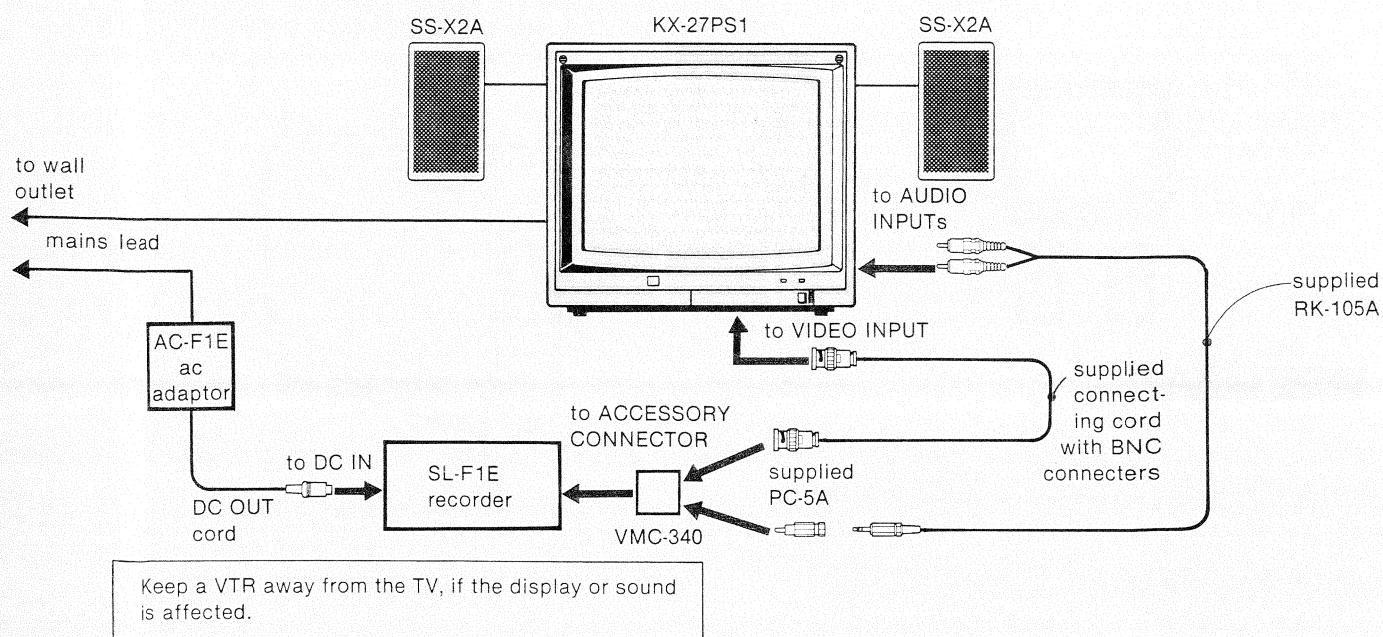
TV programmes can be viewed on the colour monitor with this system.



- Connect an external TV antenna to the TV tuner following the instructions furnished with the TV tuner.

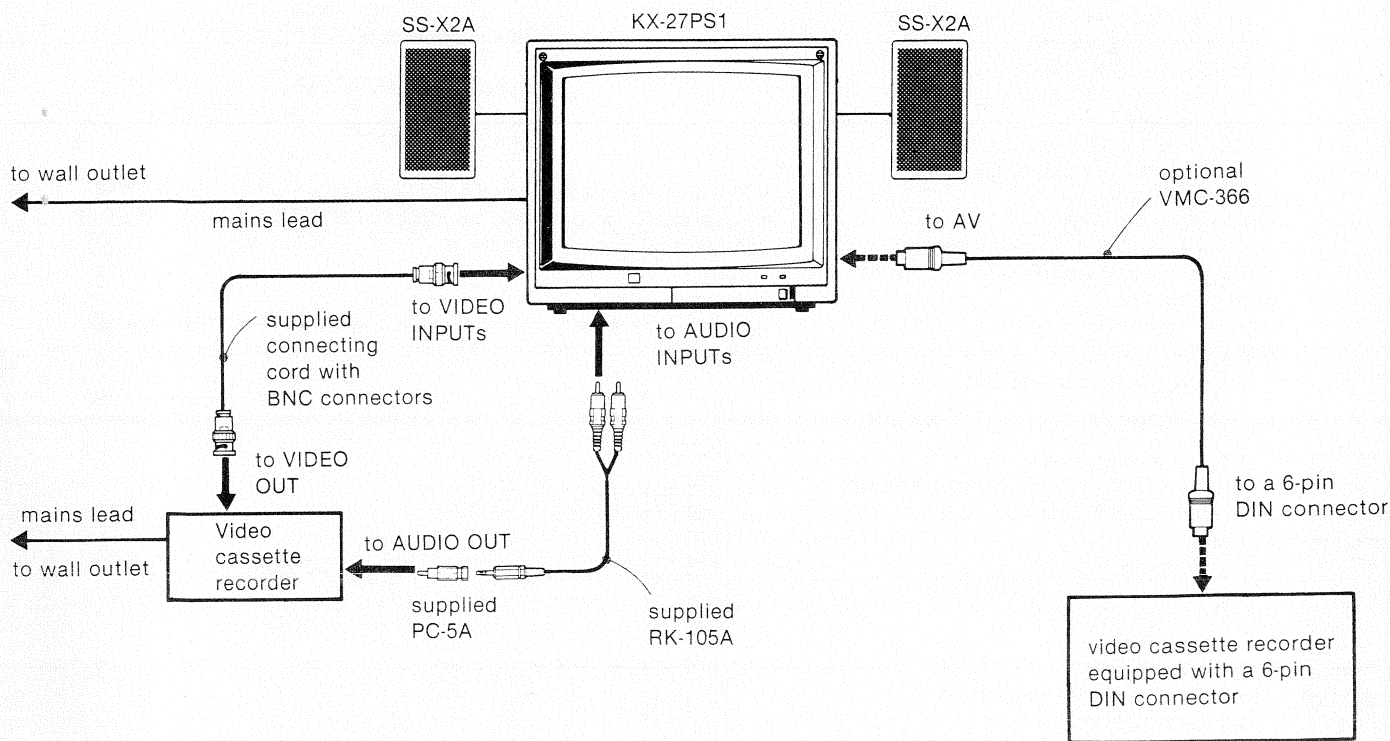
Colour monitor + Speaker system + VTR not equipped with a TV tuner

VTR playback can be viewed on the colour monitor with this system.



Colour monitor + Speaker system + VTR equipped with a TV tuner (or VTR + TV tuner)

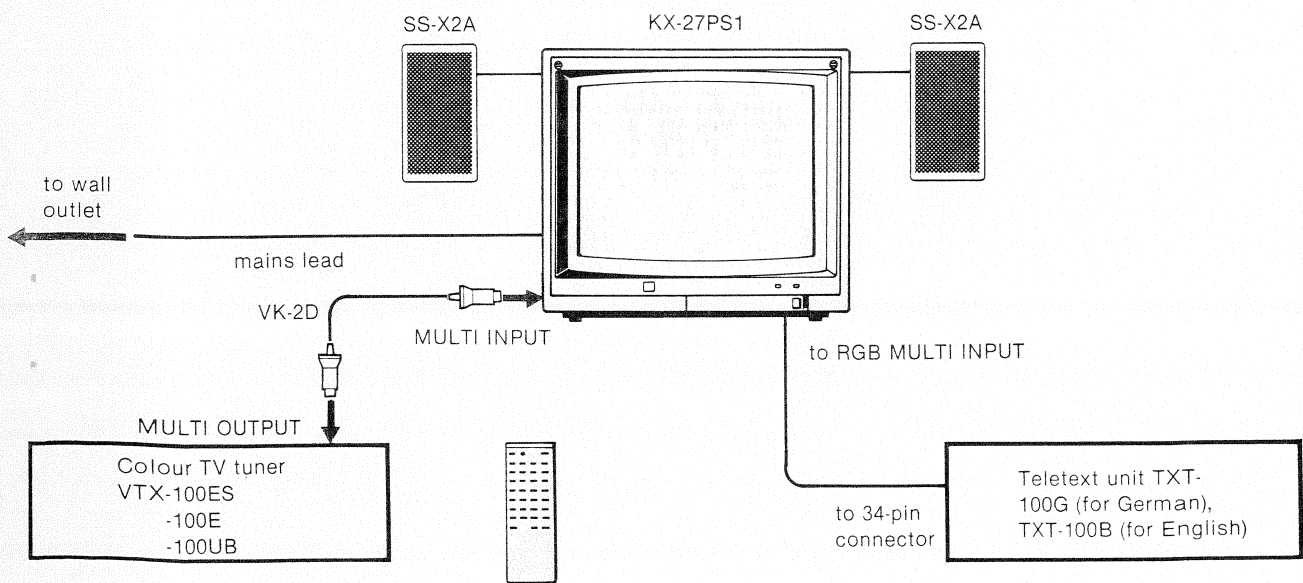
Off-the air TV programmes, recorded TV programmes and camera-recorded programmes can be viewed on the colour monitor with this system.



- Connect an external TV antenna to the tuner timer unit or video cassette recorder following the instructions furnished with the unit.
- Do not connect AUDIO/VIDEO cables and 6-pin DIN cable simultaneously.

Colour monitor + Speaker system + Colour TV tuner + Teletext unit

Teletext or videotext programmes can be viewed on the colour monitor. Select the programmes with the Remote Commander designated in the instructions supplied with the VTX-100E colour TV tuner.



SPECIFICATIONS

Colour television system	CCIR-B, G, H, I/PAL B, D, G, K, L/SECAM M/NTSC, NTSC ^{4.43}
Picture tube	Approx. 68 cm, 114-degree deflection Trinitron tube (approx. 64 cm picture measured diagonally)
Inputs	VIDEO INPUT (BNC connector): 1 V p-p, 75 ohms, unbalanced, sync negative AUDIO INPUT (2 phono jacks): -5 dBs (436 mV rms), 47 kilohms CONTROL (minijack) MULTI INPUT (8-pin): Same as the above VIDEO, AUDIO INPUTs and CONTROL jack PERI-TV (21 pin) RGB MULTI INPUT (34-pin)
Output	SPEAKER: Accepts 8—16 ohm speakers 15W × 2 (8 ohms, with 10% harmonic distortion) 25W × 2 (music power)
Input/output	AV INPUT/OUTPUT (6-pin DIN connector)
Power requirements	200–240 V ac, 50/60 Hz
Power consumption	220 W 5 W (in standby mode)
Dimensions	Approx. 660 × 557 × 477 mm (w/h/d) (26 × 22 × 18 ^{7/8} inches)
Weight	Approx. 55.2 kg (121 lbs 4 oz)
Accessories supplied	75-ohm coaxial cable with BNC connectors (1.5m) Connecting cord RK-105A (miniplug to phono plugs, 1.5 m) Plug adaptor PC-5A (phono plug to minijack) Mains lead

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

Optional units/accessories

Colour TV tuner VTX-100E*
Tuner timer unit TT-F1E
Speaker system SS-X2A, SS-X1A
Video cable VK-2D (8-pin plug to 8-pin
plug, 2m)
Video cable VK-5DX (8-pin plug to 8-pin
plug, 5m)
Video cable VMC-366 (6-pin plug to 6-pin
plug DIN cable)
Video rack SU-170

* The last letter of the model number indicates where the unit was purchased: E (for European countries), ES (for Germany), UB (for United Kingdom), for example.

NOTICE

Outputs of RGB MULTI INPUT connector on the KX-27PS1 are as follows.

DC OUT FOR TXT-100 (Teletext unit) AND VDX-100 (Viewdata unit)

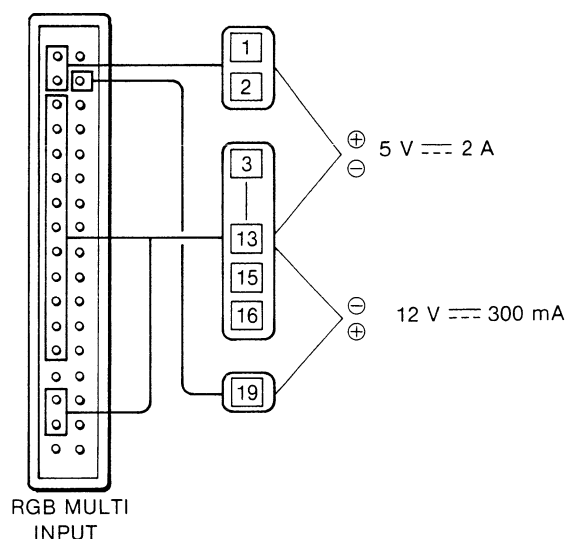


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AVERTISSEMENT

Afin d'éviter tout risque d'incendie ou d'électrocution, ne pas exposer l'appareil à la pluie ou à l'humidité.

L'appareil renferme de hautes tensions très dangereuses. Ne pas ouvrir le coffret. Confier l'entretien de l'appareil uniquement à un personnel qualifié.

PRECAUTIONS

FONCTIONNEMENT

- Ne fonctionne que sur secteur de 200–240 V. Utiliser le cordon d'alimentation secteur (fourni); ne pas en utiliser un autre.
- Si un matériau quelconque liquide ou solide, pénètre à l'intérieur du coffret, débrancher le cordon, et avant de remettre l'appareil en marche, le faire vérifier par un technicien compétent.
- Débrancher l'appareil de la prise secteur lorsque son fonctionnement est interrompu pendant quelques jours.
- Toujours débrancher en tirant sur la fiche et non sur le cordon lui-même.

INSTALLATION

- Laisser une circulation d'air libre suffisante pour éviter une surchauffe à l'intérieur de l'appareil. Ne pas placer l'appareil sur une surface molle (tapis, couvertures, etc.) ou près d'autres matériaux (rideaux, draperies) qui peuvent bloquer les fentes de ventilation.
- Ne pas placer l'appareil près de sources de chaleur comme des radiateurs ou des bouches d'air chaud, ni dans un endroit exposé au rayonnement direct du soleil. Le protéger de la poussière, des vibrations mécaniques et des chocs.

ENTRETIEN

- Conserver les cartons et les matériaux d'emballage; ils pourront être utiles pour un transport éventuel ou une expédition ultérieure de l'appareil. Pour assurer une protection maximum, le remballer comme à la livraison.
- Pour maintenir l'appareil dans un état impeccable, le nettoyer périodiquement à l'aide d'un chiffon doux. Une tache persistante peut être enlevée à l'aide d'une étoffe légèrement imbibée d'une solution savonneuse douce. Ne jamais utiliser de solvants puissants tels qu'un diluant, la benzine ou un abrasif, car ils pourraient abîmer le coffret. Par mesure de sécurité, débrancher l'appareil avant de procéder à un nettoyage.
- Pour le nettoyage de l'écran, on peut enlever la glace frontale en desserrant les vis à l'aide d'une pièce de monnaie. Agir avec précaution en raison du poids de la glace.

